BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08

MODIFIED ESTIMATE

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Balaji Layout								
	3rd main (West side)		1	105.70	1.00	0.90	95.13		
	3rd main (East side)		1	40.40	1.00	0.90	36.36		
	cross road (from 3rd main road South side)		1	34.80	1.00	0.90	31.32		
	1st main road (north side)		1	56.10	1.10	0.90	55.54		
	1st main road (south side)		1	48.60	1.00	0.90	43.74		
	Cross road (from 1st main road west side)		1	26.20	0.90	0.60	14.15		
	Cross road(Devinagar)		1	67.00	1.00	0.90	60.30		
	Lottegollahalli 1st cross		1	36.80	1.00	0.90	33.12		
	CQUAL Layout								
	2nd main (21st cross road west side)		1	149.20	1.10	1.00	164.12		
	2nd main (21st cross road east side)		1	154.50	1.10	1.00	169.95		
	Cross road(parallel to 21st cross road west side)		1	69.50	1.00	0.90	62.55		
	Cross Road Connecting south Side		1	22.50	1.00	0.90	20.25		
	Sarovara Layout								
	Cross Road (near leelavathi residency north side)		1	34.20	1.00	0.90	30.78		
	Cross Road (near leelavathi residency south side)		1	14.50	1.10	1.10	17.55		
	Cross road (parallel to main road east side)		1	99.60	1.10	0.90	98.60		
	Cross road (parallel to main road west side)		1	98.30	1.10	0.90	97.32		
	Sarovara Layout main road(west side near leelavathi residency)		1	102.80	1.20	1.20	148.03		
	Sarovara Layout(north side near storm water drain)		1	32.00	1.20	1.70	65.28		
	AMCO Layout								
	4th cross (west side)		1	59.60	1.10	0.90	59.00		
	4th cross (east side)		1	48.70	1.10	0.90	48.21		
	3rd main(2nd cross road north side)		1	55.60	1.10	0.90	55.04		
	3rd main(2nd cross road south side)		1	68.00	1.10	0.90	67.32		
	3rd main(1st cross road north side)		1	75.50	1.10	0.90	74.75		
	3rd main(1st cross road south side)		1	67.10	1.00	0.90	60.39		
	For culvert								
	CQUAL Layout		1	5.30	1.40	1.00	7.42		
	AMCO layout		1	7.80	1.40	1.00	10.92		
	Balaji layout(3rd main)		1	6.20	1.40	1.00	8.68		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Balaji layout(1st main)		1	4.00	1.40	1.00	5.60		
	Sarovara Layout		1	7.00	1.40	1.20	11.76		
	Desilting								
	3rd Main Balaji Layout		1	79.10	0.60	0.40	18.98		
	Balaji Layout main road		1	249.50	0.60	0.40	59.88		
							1732.05	**225.94**	**391338.25**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
	TP@4.95%	**10.66**							
		225.94							
3 2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Balaji Layout								
	3rd main (West side)		1	105.70	0.90	0.15	14.27		
	3rd main (East side)		1	40.40	0.90	0.15	5.45		
	cross road (from 3rd main road South side)		1	34.80	0.90	0.15	4.70		
	1st main road (north side)		1	56.10	0.90	0.15	7.57		
	1st main road (south side)		1	48.60	0.90	0.15	6.56		
	Cross road (from 1st main road west side)		1	26.20	1.00	0.15	3.93		
	Cross road(Devinagar)		1	67.00	0.90	0.15	9.05		
	Lottegollahalli 1st cross		1	36.80	1.00	0.15	5.52		
	CQUAL Layout								
	2nd main (21st cross road west side)		1	149.20	0.90	0.15	20.14		
	2nd main (21st cross road east side)		1	154.50	1.00	0.15	23.18		
	Cross road(parallel to 21st cross road west side)		1	69.50	1.00	0.15	10.43		
	Cross Road Connecting south Side		1	22.50	1.00	0.15	3.38		
	Sarovara Layout								
	Cross Road (near leelavathi residency north side)		1	34.20	1.00	0.15	5.13		
	Cross Road (near leelavathi residency south side)		1	14.50	1.00	0.15	2.18		
	Cross road (parallel to main road east side)		1	99.60	1.00	0.15	14.94		
	Cross road (parallel to main road west side)		1	98.30	1.00	0.15	14.75		
	Sarovara Layout main road(west side near leelavathi residency)		1	102.80	1.20	0.15	18.50		
	Sarovara Layout(north side near storm water drain)		1	32.00	1.20	0.15	5.76		
	AMCO Layout								
	4th cross (west side)		1	59.60	1.00	0.15	8.94		
	4th cross (east side)		1	48.70	1.00	0.15	7.31		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	3rd main(2nd cross road north side)		1	55.60	1.00	0.15	8.34		
	3rd main(2nd cross road south side)		1	68.00	1.00	0.15	10.20		
	3rd main(1st cross road north side)		1	75.50	1.00	0.15	11.33		
	3rd main(1st cross road south side)		1	67.10	1.00	0.15	10.07		
	For culvert								
	CQUAL Layout		1	5.30	1.40	0.15	1.11		
	AMCO layout		1	7.80	1.40	0.15	1.64		
	Balaji layout(3rd main)		1	6.20	1.40	0.15	1.30		
	Balaji layout(1st main)		1	4.00	1.40	0.15	0.84		
	Sarovara Layout		1	7.00	1.40	0.15	1.47		
							237.96	**5690.28**	**1354059.03**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
	TP@4.95%	**268.38**							
		5690.28							
13	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain raft	Cum							
	Balaji Layout								
	3rd main (West side)		1	105.70	0.75	0.15	11.89		
	3rd main (East side)		1	40.40	0.75	0.15	4.55		
	cross road (from 3rd main road South side)		1	34.80	0.75	0.15	3.92		
	1st main road (north side)		1	56.10	0.75	0.15	6.31		
	1st main road (south side)		1	48.60	0.75	0.15	5.47		
	Cross road (from 1st main road west side)		1	26.20	0.75	0.15	2.95		
	Cross road(Devinagar)		1	67.00	0.75	0.15	7.54		
	Lottegollahalli 1st cross		1	36.80	0.75	0.15	4.14		
	CQUAL Layout								
	2nd main (21st cross road west side)		1	149.20	0.90	0.15	20.14		
	2nd main (21st cross road east side)		1	154.50	0.90	0.15	20.86		
	Cross road(parallel to 21st cross road west side)		1	69.50	0.90	0.15	9.38		
	Cross Road Connecting south Side		1	22.50	1.00	0.15	3.38		
	Sarovara Layout								
	Cross Road (near leelavathi residency north side)		1	34.20	0.90	0.15	4.62		
	Cross Road (near leelavathi residency south side)		1	14.50	1.00	0.15	2.18		
	Cross road (parallel to main road east side)		1	99.60	1.00	0.15	14.94		
	Cross road (parallel to main road west side)		1	98.30	1.00	0.15	14.75		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Sarovara Layout main road(west side near leelavathi residency)		1	102.80	1.00	0.15	15.42		
	Sarovara Layout(north side near storm water drain)		1	32.00	1.00	0.15	4.80		
	AMCO Layout								
	4th cross (west side)		1	59.60	1.00	0.15	8.94		
	4th cross (east side)		1	48.70	1.00	0.15	7.31		
	3rd main(2nd cross road north side)	Cum	1	55.60	1.00	0.15	8.34		
	3rd main(2nd cross road south side)		1	68.00	1.00	0.15	10.20		
	3rd main(1st cross road north		1	75.50	1.00	0.15	11.33		
	3rd main(1st cross road south side)		1	67.10	1.00	0.15	10.07		
	For RCC Drain walls	Cum							
	Balaji Layout								
	3rd main (West side)		2	105.70	0.15	0.50	15.86		
	3rd main (East side)		2	40.40	0.15	0.50	6.06		
	cross road (from 3rd main road South side)		2	34.80	0.15	0.50	5.22		
	1st main road (north side)		2	56.10	0.15	0.50	8.42		
	1st main road (south side)		2	48.60	0.15	0.50	7.29		
	Cross road (from 1st main road west side)		2	26.20	0.15	0.35	2.75		
	Cross road(Devinagar)		2	67.00	0.15	0.45	9.05		
	Lottegollahalli 1st cross		2	36.80	0.15	0.45	4.97		
	CQUAL Layout								
	2nd main (21st cross road west side)		2	149.20	0.15	0.60	26.86		
	2nd main (21st cross road east side)		2	154.50	0.15	0.50	23.18		
	Cross road(parallel to 21st cross road west side)		2	69.50	0.15	0.50	10.43		
	Cross Road Connecting south Side		2	22.50	0.15	0.50	3.38		
	Sarovara Layout								
	Cross Road (near leelavathi residency north side)		2	34.20	0.15	0.60	6.16		
	Cross Road (near leelavathi residency south side)		2	14.50	0.15	0.80	3.48		
	Cross road (parallel to main road east side)		2	99.60	0.15	0.60	17.93		
	Cross road (parallel to main road west side)		2	98.30	0.15	0.50	14.75		
	Sarovara Layout main road(west side near leelavathi residency)		2	102.80	0.15	1.00	30.84		
	Sarovara Layout(north side near storm water drain)		2	32.00	0.15	1.20	11.52		
	AMCO Layout								
	4th cross (west side)		2	59.60	0.15	0.50	8.94		
	4th cross (east side)		2	48.70	0.15	0.50	7.31		
	3rd main(2nd cross road north side)	Cum	2	55.60	0.15	0.60	10.01		
	3rd main(2nd cross road south side)		2	68.00	0.15	0.50	10.20		
	3rd main(1st cross road north		2	75.50	0.15	0.50	11.33		
	3rd main(1st cross road south side)		2	67.10	0.15	0.50	10.07		

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(Project)

Date: 01/07/2

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							479.33		
	For culvert raft								
	CQUAL Layout		1	5.30	1.20	0.25	1.59		
	AMCO layout		1	7.80	1.20	0.25	2.34		
	Balaji layout(3rd main)		1	6.20	1.20	0.25	1.86		
	Balaji layout(1st main)		1	4.00	1.20	0.25	1.20		
	Sarovara Layout		1	7.00	1.20	0.25	2.10		
	For culvert walls								
	CQUAL Layout		2	5.30	0.25	0.50	1.33		
	AMCO layout		2	7.80	0.25	0.40	1.56		
	Balaji layout(3rd main)		2	6.20	0.25	0.40	1.24		
	Balaji layout(1st main)		2	4.00	0.25	0.40	0.80		
	Sarovara Layout		2	7.00	0.25	0.90	3.15		
							17.17		
	For culvert slabs								
	CQUAL Layout		1	5.30	1.20	0.20	1.27		
	AMCO layout		1	7.80	1.20	0.20	1.87		
	Balaji layout(3rd main)		1	6.20	1.20	0.20	1.49		
	Balaji layout(1st main)		1	4.00	1.20	0.20	0.96		
							5.59		
	Ramp concrete								
	AMCO Layout(1ST CROSS)		1	81.70	0.60	0.050	2.45		
	AMCO Layout(2ND CROSS)		1	66.30	0.60	0.050	1.99		
	AMCO Layout(4TH CROSS)		1	55.50	0.60	0.050	1.67		
	CQUAL Layout(21ST CROSS ROAD WEST SIDE)		1	149.20	0.40	0.075	4.48		
	CQUAL Layout(21ST CROSS ROAD EASTSIDE)		1	154.50	0.40	0.075	4.64		
	Ramp concrete for culvert								
	CQUAL Layout		2	5.30	0.40	0.125	0.53		
	AMCO layout		2	7.80	0.40	0.125	0.78		
	Balaji layout(3rd main)		2	6.20	0.40	0.125	0.62		
	Balaji layout(1st main)		2	4.00	0.40	0.125	0.40		
	Sarovara Layout		2	7.00	0.40	0.125	0.70		
							18.25		
					Net Qty.		**520.33**	**7420.17**	**3860966.74**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
	TP@4.95%	**349.97**							
		7420.17							
5/ A	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	As per executed quantity						**31.58**	**77654.86**	**2452340.48**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
	TP@4.95%	**3662.62**							
		77654.86							

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Date: 01/07/2020

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer-in-charge. (Data Base)								
	For drain cover slab	Sqm							
	Balaji Layout								
	3rd main (West side)		1	99.55	0.75	"	74.66		
	3rd main (East side)		1	40.40	0.75	"	30.30		
	cross road (from 3rd main road South side)		1	29.10	0.75	"	21.83		
	1st main road (north side)		1	52.30	0.75	"	39.23		
	1st main road (south side)		1	45.30	0.75	"	33.98		
	Cross road (from 1st main road west side)		1	23.20	0.60	"	13.92		
	Cross road(Devinagar)		1	67.00	0.75	"	50.25		
	Lottegollahalli 1st cross		1	36.80	0.75	"	27.60		
	CQUAL Layout								
	Cross road(parallel to 21st cross road west side)		1	46.80	0.75	"	35.10		
	Cross Road Connecting south Side		1	9.90	0.90	"	8.91		
	Sarovara layout								
	Cross Road (near leelavathi residency north side)		1	23.30	0.75	"	17.48		
	Cross Road (near leelavathi residency south side)		1	14.50	0.90	"	13.05		
	Cross road (parallel to main road east side)		1	67.40	0.90	"	60.66		
	Cross road (parallel to main road west side)		1	77.00	0.90	"	69.30		
	Sarovara Layout main road(west side near leelavathi residency)		1	102.80	0.90	"	92.52		
	Sarovara Layout(north side near storm water drain)		1	32.00	0.90	"	28.80		
	AMCO Layout								
	4th cross (west side)		1	49.20	0.90	"	44.28		
	4th cross (east side)		1	38.30	0.90	"	34.47		
	3rd main(2nd cross road north side)		1	25.20	0.90	"	22.68		
	3rd main(2nd cross road south side)		1	38.20	0.90	"	34.38		
	3rd main(1st cross road north side)		1	41.20	0.90	"	37.08		
	3rd main(1st cross road south side)		1	20.40	0.90	"	18.36		
	For desilting								
	missing slabs-10%						29.57		
							838.39	**2452.68**	**2056308.52**
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
	For Drain	Sqm							
	CQUAL Layout								
	2nd main (21st cross road west side)		1	149.20	0.90	"	134.28		
	2nd main (21st cross road east side)		1	154.50	0.90	"	139.05		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Balaji Layout								
	3rd main (West side)		1	6.15	0.90	--	5.54		
	cross road (from 3rd main road South side)		1	5.70	0.90	--	5.13		
	1st main road (north side)		1	3.80	0.90	--	3.42		
	1st main road (south side)		1	3.30	0.90	--	2.97		
	Cross road (from 1st main road west side)		1	3.00	0.90	--	2.70		
	CQUAL Layout								
	Cross road(parallel to 21st cross road west side)		1	22.70	0.90	--	20.43		
	Cross Road Connecting south Side		1	12.60	0.90	--	11.34		
	Sarovara layout						--	0.00		
	Cross Road (near leelavathi residency north side)		1	10.90	0.90	--	9.81		
	Cross road (parallel to main road east side)		1	32.20	0.90	--	28.98		
	Cross road (parallel to main road west side)		1	21.30	0.90	--	19.17		
	AMCO Layout								
	4th cross (west side)		1	10.40	0.90	--	9.36		
	4th cross (east side)		1	10.40	0.90	--	9.36		
	3rd main(2nd cross road north side)		1	30.40	0.90	--	27.36		
	3rd main(2nd cross road south side)		1	29.80	0.90	--	26.82		
	3rd main(1st cross road north side)		1	34.30	0.90	--	30.87		
	3rd main(1st cross road south side)		1	46.70	0.90	--	42.03		
							528.62	**1014.57**	**536316.92**
	Basic Rate Rs.=	912.00							
	Add 6% A.W Rs. =	54.72							
	Total Rate Rs. =	**966.72**							
	TP@4.95%	**47.85**							
		1014.57							
8	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.26, I.No.5.17 of PW,P&IWTD SR 2018-19)								
	For Drain	Sqm							
	CQUAL Layout								
	2nd main (21st cross road west side)		1	149.20	0.90	--	134.28		
	2nd main (21st cross road east side)		1	154.50	0.90	--	139.05		
	Balaji Layout								
	3rd main (West side)		1	6.15	0.90	--	5.54		
	cross road (from 3rd main road South side)		1	5.70	0.90	--	5.13		
	1st main road (north side)		1	3.80	0.90	--	3.42		
	1st main road (south side)		1	3.30	0.90	--	2.97		
	Cross road (from 1st main road west side)		1	3.00	0.90	--	2.70		
	CQUAL Layout								
	Cross road(parallel to 21st cross road west side)		1	22.70	0.90	--	20.43		
	Cross Road Connecting south Side		1	12.60	0.90	--	11.34		
	Sarovara layout								

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Cross Road (near leelavathi residency north side)		1	10.90	0.90	--	9.81		
	Cross road (parallel to main road east side)		1	32.20	0.90	--	28.98		
	Cross road (parallel to main road west side)		1	21.30	0.90	--	19.17		
	AMCO Layout								
	4th cross (west side)		1	10.40	0.90	--	9.36		
	4th cross (east side)		1	10.40	0.90	--	9.36		
	3rd main(2nd cross road north side)		1	30.40	0.90	--	27.36		
	3rd main(2nd cross road south side)		1	29.80	0.90	--	26.82		
	3rd main(1st cross road north side)		1	34.30	0.90	--	30.87		
	3rd main(1st cross road south side)		1	46.70	0.90	--	42.03		
							528.62	**997.89**	**527499.62**
	Basic Rate Rs.=	897.00							
	Add 6% A.W Rs. =	53.82							
	Total Rate Rs. =	**950.82**							
	TP@4.95%	**47.07**							
		997.89							
8	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm							
	Sarovara Layout		1	7.00	1.20	--	8.40		
10							**8.40**	**5686.19**	**47764.00**
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.(I No-18.47,P No-140)								
	For Road	Cum							
	RAM MANDIRA ROAD		1	125.10	4.10	0.20	102.58		
	Cross Road(from ram mandira road)		1	15.60	3.40	0.20	10.61		
	6th Cross Road(Balaji layout)		1	125.50	3.20	0.20	80.32		
	Devinagar		1	67.00	3.70	0.20	49.58		
	Naidu bar next road		1	36.10	3.10	0.20	22.38		
	cross road(from naidu bar next road)		1	23.00	3.10	0.20	14.26		
	Cross road (patel nanjegowda layout)		1	63.80	4.40	0.20	56.14		
	Government school road		1	207.60	4.20	0.20	174.38		
	Cross road (Government school road)		1	10.80	5.60	0.20	12.10		
	muniswamappa layout 4th cross		1	81.50	4.20	0.20	68.46		
	muniswamappa layout 2nd cross		1	57.00	5.00	0.20	57.00		
	Lottegollahalli 1st cross		1	46.00	6.30	0.20	57.96		
							705.78	**1021.60**	**721020.76**
	Basic Rate Rs.=	899.00							

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Project Division
NH-7 Road. Bangalore-92.
11.2.2020

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Add 6% A.W Rs. =	53.94							
	Sub Total =	952.94							
	8Km Lead =(2*1.28*8)	20.48							
	Total Rate Rs. =	**973.42**							
	TP@4.95%	**48.18**							
		1021.60							
12	KSRRB M600-1.Providing and Constructing **dry lean cement concrete mix CC 1:5:10** base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5, with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (P.No-174,I No-22.1.1)								
	For Road	Cum							
	RAM MANDIRA ROAD		1	125.10	4.10	0.15	76.94		
	Cross Road(from ram mandira road)		1	15.60	3.40	0.15	7.96		
	6th Cross Road(Balaji layout)		1	125.50	3.20	0.15	60.24		
	Devinagar		1	67.00	3.70	0.15	37.19		
	Naidu bar next road		1	36.10	3.10	0.15	16.79		
	cross road(from naidu bar next road)		1	23.00	3.10	0.15	10.70		
	Cross road (patel nanjegowda layout)		1	63.80	4.40	0.15	42.11		
	Government school road		1	207.60	4.20	0.15	130.79		
	Cross road (Government school road)		1	10.80	5.60	0.15	9.07		
	muniswamappa layout 4th cross		1	81.50	4.20	0.15	51.35		
	muniswamappa layout 2nd cross		1	57.00	5.00	0.15	42.75		
	Lottegollahalli 1st cross		1	46.00	6.30	0.15	43.47		
							529.33	3988.20	2111084.50
	Basic Rate Rs.=	3585.00							
	Add 6% A.W Rs. =	215.10							
	Total Rate Rs. =	**3800.10**							
	TP@4.95%	**188.10**							
		3988.20							
13	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Road	Cum							
	RAM MANDIRA ROAD		1	125.10	4.10	0.15	76.94		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Cross Road(from ram mandira road)		1	15.60	3.40	0.15	7.96		
	6th Cross Road(Balaji layout)		1	125.50	3.20	0.15	60.24		
	Devinagar		1	67.00	3.70	0.15	37.19		
	Naidu bar next road		1	36.10	3.10	0.15	16.79		
	cross road(from naidu bar next road)		1	23.00	3.10	0.15	10.70		
	Cross road (patel nanjegowda layout)		1	63.80	4.40	0.15	42.11		
	Government school road		1	207.60	4.20	0.15	130.79		
	Cross road (Government school road)		1	10.80	5.60	0.15	9.07		
	muniswamappa layout 4th cross		1	81.50	4.20	0.15	51.35		
	muniswamappa layout 2nd cross		1	57.00	5.00	0.15	42.75		
	Lottegollahalli 1st cross		1	46.00	6.30	0.15	43.47		
	Sarovara layout 1st cross		1	111.00	6.80	0.15	113.22		
	Sarovara layout 1st A cross		1	54.00	6.00	0.15	48.60		
							691.15	**5468.90**	**3779841.17**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
	TP@4.95%	**257.94**							
		5468.90							
	EIRL								
E1	Removing and resetting of foothpath slab [Item No Page No. 270]								
	For drain cover slab	Sqm							
	Desilting								
	3rd Main Balaji Layout		1	79.10	0.90	--	71.19		
	Balaji Layout main road		1	249.50	0.90	--	224.55		
	missing slabs-10%						-29.57		
							266.17	**219.16**	**58332.91**
	Basic Rate Rs.=	197.00							
	Add 6% A.W Rs. =	11.82							
	Sub Total =	208.82							
	Total Rate Rs. =	**208.82**							
	TP@4.95%	**10.34**							
		219.16							
E2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Sarovara layout 1st cross		1	111.00	6.80	0.20	150.96		
	Sarovara layout 1st A cross		1	54.00	6.00	0.20	64.80		
							215.76	**225.94**	**48748.03**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Total Rate Rs. =	**215.28**							
	TP@4.95%	**10.66**							
		225.94							
E3	KSRRB M400-17, Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications, MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19								
	For Road	Cum							
	Sarovara layout 1st cross		1	111.00	6.80	0.20	150.96		
	Sarovara layout 1st A cross		1	54.00	6.00	0.20	64.80		
							215.76	**2100.34**	**453470.08**
	Basic Rate Rs.=	1888.00							
	Add 6% A.W Rs. =	113.28							
	Total Rate Rs. =	**2001.28**							
	TP@4.95%	**99.06**							
		2100.34							
							Sub Total 1 Rs.		**18398791.01**
	Add GST @ 12%								**2207854.92**
							Total Rs.		**20606645.93**

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer
Project Division Yelahanka
BBMP

Assistant Executive Engineer
Project Division Yelahanka
BBMP

Executive Engineer
Project Division Yelahanka
BBMP

Technical Sanction
Accorded For Rs 20606645.93
Head of A/C PO190
CER NO :...37..... Dt:03.11.2020

CE (YNK).

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